

Appl. No. 10/801,168
Amendment Dated October 31, 2006
Reply to Office Action of September 15, 2006

In the Specification:

Replace the paragraph beginning at page 36, line 2, with the following:

--Fig. 1 is a perspective view of a rotating disk like member;

Fig. 2 is a perspective view of the individual magnets of the disk like member shown in Fig. 1;

Fig. 3 is a plan view of a motor driven treatment system using the rotating disk like member;

Fig. 4 is a perspective view of an alternate embodiment of the rotating disk like member utilizing a plurality of permanent magnets forming a portion of the outer peripheral surface;

Fig. 5 is a cross-sectional view of the disk like member of Fig. 4 taken along line I-I;

Fig. 6 is a perspective view of an alternate embodiment with an electromagnet generates a stepwise changing magnetic field;

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Fig. 7 is a graph plotting the magnetic and resultant electric fields generated by all the embodiments of this invention versus time;

~~Fig. 8 is a plan view of an embodiment of a treatment system using the stepwise changing electromagnet wherein full articulation of system is provided~~ was duplicative of Fig. 6 and has been canceled;

Fig. 9 is a perspective view of a transdermal medicant delivery device using a stepwise changing magnetic field to induce the transport of the medicant;

Fig. 10 is a cross-sectional view of Fig. 9 taken along line J-J;

Fig. 11 is a diagrammatic front view of an electromagnetic coil embodiment of the apparatus according to the invention;

Fig. 12 is a block diagram of the electromagnetic coil embodiment of the apparatus;

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Fig. 13A is a block diagram showing a circuit of the electromagnetic coil embodiment connected to ground during the charging part of the cycle;

Fig. 13B is a block diagram showing the circuit disconnected to the ground and connected through a ballast resistance during the discharge part of the cycle;

Fig. 14A is a perspective exploded view of the coil;

Fig. 14B is a perspective view of the coil;

Fig. 14C is a section view of the coil taken along line A-A in Fig. 14B;

Fig. 15A is a graph plotting relative voltage per centimeter of the coil versus time;

Fig. 15B is a graph plotting magnetic field strength of the coil on the same time axis as Fig. 15A; and

Fig. 16 is a graph plotting typical magnetic and electric field strengths of a coil versus time.—

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Replace the paragraph beginning at page 46, line 3, with the following:

--Fig. 8 6 shows a typical embodiment for the therapeutic application. Power supply 21 energizes coils 17 on core 16 5 through controller 20. The angle of the outer magnetic face of the core 16 is controlled by a dual axis assembly 10. The outer magnetic face core 16 is separated from the treated biological material by a protective guard 11. The protective guard is made of non-conducting material such as glass-10 reinforced plastic or some other non-magnetic and nonconducting plastic. The height of the outer magnetic face of core 16 is controlled with gear track 9 mounted on stand 8.--